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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/572,758	03/21/2006	Yukkiang Lau	5955900029	3326
32294 7590 10/01/2007 SQUIRE, SANDERS & DEMPSEY L.L.P. 14TH FLOOR			EXAMINER	
			HEITBRINK, JILL LYNNE	
8000 TOWER TYSONS COR	S CRESCENT RNER, VA 22182		ART UNIT PAPER NUMBER	
	,		1732	
		•	MAIL DATE	DELIVERY MODE
			10/01/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
	10/572,758	LAU ET AL.				
Office Action Summary	Examiner	Art Unit				
	Jill L. Heitbrink	1732				
The MAILING DATE of this communicate Period for Reply	ation appears on the cover sheet	with the correspondence addre	ss			
A SHORTENED STATUTORY PERIOD FOR WHICHEVER IS LONGER, FROM THE MAI - Extensions of time may be available under the provisions of after SIX (6) MONTHS from the mailing date of this commun - If NO period for reply is specified above, the maximum statuth - Failure to reply within the set or extended period for reply will Any reply received by the Office later than three months afte earned patent term adjustment. See 37 CFR 1.704(b).	ILING DATE OF THIS COMMUN 37 CFR 1.136(a). In no event, however, may ication. tory period will apply and will expire SIX (6) Mi 1, by statute, cause the application to become	IICATION. a reply be timely filed DNTHS from the mailing date of this comm ABANDONED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed	on					
•— •)⊠ This action is non-final.					
3) Since this application is in condition fo	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice	under Ex parte Quayle, 1935 C	.D. 11, 453 O.G. 213.				
Disposition of Claims						
4)⊠ Claim(s) <u>1-8</u> is/are pending in the application.						
4a) Of the above claim(s) is/are	4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-8</u> is/are rejected.	Claim(s) <u>1-8</u> is/are rejected.					
7) Claim(s) is/are objected to.	Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction	on and/or election requirement.					
Application Papers						
9) The specification is objected to by the I	Examiner.					
10) The drawing(s) filed on is/are: a	a)☐ accepted or b)☐ objected t	o by the Examiner.				
Applicant may not request that any objection	on to the drawing(s) be held in abey	ance. See 37 CFR 1.85(a).				
Replacement drawing sheet(s) including th		- · ·	* *			
11)☐ The oath or declaration is objected to b	y the Examiner. Note the attach	ed Office Action or form PTO-	152.			
Priority under 35 U.S.C. § 119						
12)⊠ Acknowledgment is made of a claim for a)⊠ All b)□ Some * c)□ None of:	r foreign priority under 35 U.S.C.	§ 119(a)-(d) or (f).				
1. Certified copies of the priority do	ocuments have been received					
	2. Certified copies of the priority documents have been received in Application No					
3.⊠ Copies of the certified copies of			age			
application from the Internationa	•					
* See the attached detailed Office action to	for a list of the certified copies no	ot received.				
Attachment(s)						
1) Notice of References Cited (PTO-892)	4) Interview	Summary (PTO-413)				
2) Notice of Draftsperson's Patent Drawing Review (PTC)-948) Paper No	o(s)/Mail Date Informal Patent Application				
 Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 3/21/06. 	6) Other: _	• •				

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Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1 and 3-8 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by Bulgrin Pat. No. 5,456,870 (col. 8, lines 59-col. 9, line 12 and col. 20, lines 18-54).

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claim 2 is rejected under 35 U.S.C. 103(a) as being unpatentable over Bulgrin Pat. No. 5,456,870 as applied to claims 1 and 3-8 above, and further in view of either Hehl, Pat. No. 5159957 or JP 61-234120.
- 5. Bulgrin (col. 20, line 59-col. 21, line 2) discloses the cooling by the dissipation of heat to the atmosphere. Hehl and JP'120 each teach controlling the temperature of the cylinder member by a cooling apparatus disposed at the supply port. It would have been obvious to a person of ordinary skill in the art to provide a cooling apparatus

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disposed at a supply port in Bulgrin when the amount of cooling by the atmosphere is not sufficient to provide the desired control temperature.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jill L. Heitbrink whose telephone number is (571) 272-1199. The examiner can normally be reached on Monday-Friday 9 am -2 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Christina Johnson can be reached on (571) 272-1176. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Jill L. Heitbrink Primary Examiner

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